

Department of Laboratory Services

Proc	edure: i-STAT 1	New Revised Date: 5/18/2023	POC: i-STAT	Page: 1 of 16	
Anal	yzer Procedure	Termination Date:			
1.0	Purpose	This procedure provides instructions for the prioritizing and usage of the i-			
		STAT analyzer. The i-STAT analyzer is intended for use with i-STAT			
		cartridges for in vitro quantification of various analytes in whole blood.			
		The i-STAT System incorporates a comprehensive group of components			
		needed to perform blood analysis in the Point of Care setting. A portable			
		handheld analyzer, a cartridge with the required tests, and 2-3 drops of			
		blood permits the caregiver to view quantitative test results for blood gas,			
		chemistry, H and H, and coagu	lation tests in approximately	y two minutes.	
		FDA Limitation – PT/INR cartridg	e is only approved for moni	toring	
		Coumadin or Warfarin oral and	icoagulant therapy.		
		FDA Limitation – ACT C and AC	ΓK is only approved for pat	ients on Heparin	
		therapy.			
		Refer to i-STAT 1 System Manual for further information.			
2.0	Scope	To be used for the administrative and technical operations of Patient Care			
		Services and Laboratory Services for patient testing in Respiratory,			
		Laboratory, and Point of Care Testing. Refer to "POC Testing Site Chart"			
		and to the "Respiratory Testing Site Chart".			
3.0	Procedure – Supplies, P	reparation of Analyzer			
	Supplies	i-STAT Analyzer			
		i-STAT cartridges			
		Portable Printer, if applicable			
		Quality Assurance Materials (Elec	tronic Simulator, Control So	olution, and	
		Calibration Verification Set)			
		Data Management System (i-STAT Downloader, i-STAT Downloader-			
		Recharger, IR link for Portable	Analyzer, Data Manageme	nt system (DE)	
		in Telcor QML, and LIS-HIS I	nterface Software).		
	Prior to Using	Install Batteries (2)	9-volt lithium batteries, or	(1) rechargeable	
	Analyzer	bat	terv		
	U U	Ch	arge Downloader/Recharger	(Refer to	
			System Manual if recharge	able batteries	
			and Downloader/Recharge	r are used.)	
				<i>`</i>	
		Check Date-Time Pre	ss On/Off Key		
		Ch	eck Date-Time at the top of	the display are	
		COL	rect (Refer to System Manu	al)	

	Check Software Perform Quality Check	New analyzers or analyzers that have been repaired and returned or replaced will have standard application software. If a different application software is in use in your facility, it must be installed in new, repaired, or replaced analyzers before they are put into use. (Refer to System Manual)
		cartridge-reading performance of new or replaced analyzers.
	Test-Method-Instrument Validation	Refer to "BayCare Laboratory Quality Management System: Test-Method- Instrument Procedure"
Cartridge Test Cycle	Makes electrical contact with t Identifies the cartridge type Releases calibration fluid to th Mixes sample and reagent (wh Measures barometric pressure Heats the sensors to 37 °C (wh Measures electrical signals gen (when applicable) Displaces the calibrant solutio Measures electrical signals gen Accepts the operator and patie Accepts chart page informatio Calculates and displays results Stores results	the cartridge ne sensors (when applicable) nen applicable) nen required by the test) nerated by the sensors and calibration fluid n with sample (when applicable) nerated by the sensors and sample ent ID's scanned or entered by the operator n
Data Entry	Operator ID (Employee ID) Patient ID, Proficiency ID, or Cartridge Lot Number Control Lot Number Cal/Ver Kit Lot Number Comment codes for patient and Chart page (sample type, patie	Simulator ID d control results (optional) ent temperature, FIO2, and Free fields)
Storage of Results	5,000 test records	Set of Results Date-Time test was performed Cartridge Type Information entered by barcode scanner or keypad (Operator ID, Patient ID, Lot Numbers for Controls-Cartridges, Chart page data, and serial number of the electronic simulator) Serial number of analyzers

	Storage of Results		Number of times the analyzer has been used		
	(cont.)		Software versions installed in the analyzer		
	(******		Name of the analyzer's customization profile		
			Quality Check Codes (problem with sample		
			calibration sansors and machanical or		
			canoration, sensors, and mechanical of		
			electrical functions)		
	Cartridge Packaging	Sealed in a paper pouch with a liquid impermeable inside pouch for protection			
		during storage			
		Labeling on the carton, bo	ox and pouch/portion pack identify (panel name, tests		
		included in the panel,	lot number, and expiration date of the cartridge)		
		DO NOT USE IF PACKAGE HAS BEEN PUNCTURED			
	Cartridge Storage	2 - 8 °C until expiration da	ate on the cartridges		
		18 – 30 °C Room Tempera	ature before removing them from their sealed		
		pouches (5 minutes fo	or one cartridge, 1 hour for a box of 25 cartridges) –		
		expiration date chang	es to 2 weeks (ACT. PT/INR. CHEM8. TNI. Crea)		
		or			
		2 months (CG8+, CG	4+, EG7+)		
	Control Storage	2 - 8 °C until expiration da	ate on the box		
	Calibration	2 - 8 °C until expiration date on the box			
	Verification Material				
4.0	Procedure – Ouality Co	ntrol			
	Newly Received	Verify transit temperature using the 4-window temperature indicator strip			
	Cartridges	Document lot number, temperature indicated on strip, operator ID, and date			
	Curringes	2 se antene set hannoel, temperature mareated on surp, operator no, and date			
	Daily Analyzer	Electronic Simulator (Inte	rnal)		
	Performance	Performed every 8 hours for ACT and Blood Gas testing			
		Performed daily for all other analytes			
	Refrigerator Storage	Verify refrigerator temper	ature, document, and perform corrective action (if		
		applicable)			
		Accomplished via automa	ted temperature monitoring system or Min/Max		
		thermometers. Tempe	erature monitoring is reviewed and approved by Point		
		thermometers. Temperature monitoring is reviewed and approved by Point of Care testing Teom members			
	Room Tomporatura	Verify room temperature	document and perform corrective action (if		
	Storage	applicable)	document, and perform corrective action (if		
	Storage	A accompliabed via outoma	ted tomporature monitoring system or Min/May		
		thermore store T	teu temperature monitoring system or will/Wax		
		inermometers. Tempe	trature monitoring is reviewed and approved by Point		
		of Care testing Team	members.		
	Thermal Probe Check	Performed twice a year –	Refer to 1-STAT Systems Manual		
	o Month Software	Performed twice a year –	Refer to Systems Manual. Liquid QC must be		
	Update	performed on all anal	yzers tollowing software upgrade, and Cal/Ver		
		material must be perf	ormed in addition for non-waived testing.		
	Performing Cal/Ver	Analyzer On	Press On/Off key		
		Test Menu	Press Menu key		
		Administration Menu	Press 3 to select quality tests		
		Quality Tests Menu	Press 3 to select Cal/Ver		

(cont.) Scan or Enter Operator ID Press Scan or manually enter operator ID (5 to 7- digit team member number) – Press Enter Scan or Enter Cal/Ver Lot ID Scan or Enter Cal/Ver Lot ID Press Scan or manually enter the Cal/Ver lot ID – Press Enter Scan or Enter Cal/Ver Lot ID Scan or Enter Cal/Ver Lot ID Press Scan or manually enter the cartridge lot number – Press Enter Shake the ampule vigorously for 5 = 10 seconds (Hold the ampule at the top and bottom with forefinger and thumb) Protect fingers with gauze, tissue or glove, or use and ampule breaker to snap off the tip of the ampule at the neck Identifying cartridge – Please wait, cartridge locked Immediately transfer the solution from the ampule into a capillary tube or syringe Immediately seal the cartridge Insert cartridge into the analyzer Identifying cartridge Locked Chart page will be displayed automatically Number). Time to Results → Page, Cartridge Locked Scan or manually enter the Cal/Ver levels (1 thru 5) – Press Enter Press Enter Press Enter Press Enter Scan or manually enter the Cal/Ver levels (1 thru 5) Press Enter Scan or manually enter the Cal/Ver levels (1 thru 5) Press Enter Press Enter Scan or manually enter the Cal/Ver levels (1 thru 5) Press Enter Press Enter Press Enter Results Test Options Cal/Ver (Next Level, Repeat Level, or	Performing Cal/Ver	Quality Cal/Ver	
ID Scan or Enter Cal/Ver Lot ID Scan or Enter Cal/Ver Lot ID Press Scan or manually enter the Cal/Ver Iot ID – Scan or Enter Catridge Lot Number Press Scan or manually enter the Cal/Ver Iot ID – Scan or Enter Catridge Lot Number Press Enter Press Enter Press Enter Shake the ampule vigorously for 5 – 10 seconds (Hold the ampule at the top and bottom with forefinger and thumb) Protect fingers with gauze, tissue or glove, or use and ampule breaker to snap off the tip of the ampule at the neck Immediately transfer the solution into the cartridge Inmediately transfer the solution into the cartridge Inmediately seal the cartridge Inmediately seal the cartridge Inmediately seal the cartridge Inter data (Later Level, Cartridge locked Cal/Ver Level (Lot Can or manually enter the Cal/Ver levels (1 thru 5) – Press Enter Field 1, 2, 3 → Page, Cartridge locked Cal/Ver Level (Lot Scan or manually enter the Cal/Ver levels (1 thru 5) – Press Enter Press Enter Press Enter Field 1, 2, 3 → Page, Cartridge Locked Results Page, Cartridge Locked Messuits Page, Cartridge Locked Message is removed Test Options Cal/Ver (Next Level, Repeat Level, or History) Remove cartridge and discard in a Sharps container Note: G-month Cal/Ver is not required for c	(cont.)	Scan or Enter Operator	Press Scan or manually enter operator ID (5 to 7-
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Lot ID Scan or Enter Cartridge Scan or Enter Cartridge Press Scan or manually enter the cartridge lot mumber – Press Enter Shake the ampule vigorously for 5 – 10 seconds (Hold the ampule at the top and bottom with forefinger and thumb) Protect fingers with gauze, tissue or glove, or use and ampule breaker to snap off the tip of the ampule at the neck Inmediately transfer solution from the ampule into a cartridge locked is-STAT (Cartridge Parel number). Fries Enter i.STAT (Cartridge Parel number). Time to Results → Page, Cartridge locked Cartridge locked Cartridge Locked Field 1, 2, 3 → Page, Cartridge Locked Results Field 1, 2, 3 → Page, Cartridge Locked Cartridge Locked Results Note: Note: Note: Note: Note: Press Cartridge Indexed Press Page, Page, Cartridge Indexed Press Page, Cartridge Indexed Press Page, Cartridge Indexed Press Page, Cartridge Indexed Press Page,		Scan or Enter Cal/Ver	Press Scan or manually enter the Cal/Ver lot ID –
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 Shake the ampule vigorously for 5 – 10 seconds (Hold the ampule at the top and bottom with forefinger and thumb) Protect fingers with gauze, tissue or glove, or use and ampule at the neck Immediately transfer solution from the ampule at the neck Immediately transfer the solution into the cartridge Immediately transfer the solution into the cartridge Immediately ransfer the solut		Lot Number	number – Press Enter
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Identifying cartridge – Immediately transfer solution from the ampule into a capillary tube or syringe Identifying cartridge – Immediately transfer the solution into the cartridge Immediately seal the cartridge Immediately transfer the solution into the cartridge Intervention Intervention Please wait, cartridge locked Cartridge locked Cartridge locked Cartridge locked Cal/Ver Level (Lot Scan or manually enter the Cal/Ver levels (1 thru 5) Number) Scan or Press Enter Field 1, 2, 3 Press Enter to move thru all 3 fields → Page, Cartridge Locked Test Options Cal/Ver (Next Level, Repeat Level, or History) Cartridge Locked Results Test Options Cal/Ver values must be within manufacturer established ranges (on the VAS for that specific control and software version #) Note: 6-month Cal/Ver is not required for coagulation analytes (ACT, INR) To prove lower reportable range for Lactate, dilute the i-STAT Calibration Verification Level 5 to yield result near 0.35mmol/L.			Protect fingers with gauze, tissue or glove, or use and ampule breaker to snap off the tip of the ampule at the neck
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yield result near 0.35mmol/L.			To prove lower reportable range for Lactate, dilute the i-STAT Calibration Verification Level 5 to
			yield result near 0.35mmol/L.

External Liquid OC	PT/INR cartridge - iSTAT PT/INR controls Level 1 & 2		
Material	ACT cartridge- iSTAT ACT controls Level 1 & 2		
	$Chom 8 \perp cartridge_ Tricontrols Level 1 & 2$		
	Creatining cortridge $_$ i-STAT Tricontrols 1 and 2		
	Creatinine cartridge = 1-51A1 Tricontrols 1 and 5 CC8 + CC4 + EC7 + agentidge = i STAT Tricontrols level 1 & 2		
	COO+/CO4+/LO/+ curringe - 1-51 A1 Theometors level 1 & 5		
	Waived	Validation upon implementation – Refer to	
		"BayCare Laboratory Quality Management	
		System: Test-Method-Instrument	
		Verification".	
		2 levels – Each new lot of cartridges/shipment on a	
		subset of analyzers	
		2 levels – If temperature at which the cartridges	
		have been stored is in doubt	
		1 level – 1 cartridge from each refrigerated storage	
		monthly	
	Old lot/New Lot	Document in the data manager (DE in Telcor	
	comparison	QML) when QC is performed on a new lot # of	
		cartridge and 30-day existing lot. Reviewed by	
		the POCC - select correct comment,	
		date/initials are automatically documented.	
		Suitable reference material is purchased from	
		the manufacturer for this purpose.	
	Criteria for acceptability	All control values must be within manufacturer	
		established ranges (on the VAS for that	
		specific control and software version #)	
	Non-Waived	Validation upon implementation (Accuracy,	
	(Moderate – High	Precision, etc.) – Refer to "BayCare	
	Complexity)	Laboratory Quality Management System:	
		Test-Method-Instrument Verification".	
		2 levels – Each new lot of cartridges/shipment on a	
		subset of analyzers, monthly, not to exceed 31	
		days of an existing lot of number -2 levels of	
		QC on every analyzer for each cartridge type	
		tested	
		2 levels – Il temperature at which the cartridges	
	Old lot/Novy Lot	Decument in the date manager (DE in Teleor	
	comparison	OMI) when OC is performed on a new lot # of	
	comparison	cartridge and 30 day existing lot. Reviewed by	
		the POCC - select correct comment	
		date/initials are automatically documented	
		Suitable reference material is purchased from	
		the manufacturer for this purpose	
		the manufacturer for this purpose.	
	Criteria for acceptability	All control values must be within manufacturer	
		established ranges (on the VAS for that	
		specific control and software version #)	

	1		
Performing Internal	Automatically activated when a cartridge is inserted after the customized		
Electronic	interval is reached		
Simulator Test	If "Electronic Simulator Fail" displays, do NOT perform patient testing		
	Refer to Troubleshooting Section in the System Manual		
Performing External	Analyzer On	Press On/Off key	
Electronic	Test Menu	Press Menu key	
Simulator Test	Administration Menu	Press 3 to select quality tests	
	Quality Tests Menu	Press 4 to select simulator	
	Scan or Enter Operator	Press Scan or manually enter operator ID (5 to 7-	
	ID	digit team member number) – Press Enter	
	Scan or Enter Simulator ID	Press Scan or manually enter the simulator ID – Press Enter	
	Insert Simulator	Remove the protective cover protecting the contact pads	
	Contacting Simulator.	Insert the simulator straight into the analyzer	
	Please wait Time	Do NOT attempt to remove the simulator until the	
	to Results bar	results are displayed and the "Simulator	
	Simulator Locked	Locked" message is removed	
	Result Screen: ID of	If PASS is displayed, continue to use the analyzer	
	Simulator, Date-	If FAIL is displayed, do NOT perform patient	
	time, Pass or Fail	testing	
		Refer to Troubleshooting Section in the System Manual	
Performing Liquid	Analyzer On	Press On/Off key	
QC for Blood	Test Menu	Press Menu key	
Gas, Electrolyte,	Administration Menu	Press 3 to select quality tests	
Metabolites,	Quality Tests Menu	Press 1 to select control	
CG4+, Crea, or	Quality Tests Control		
Chem 8+		Select 2 Scheduled (for QC lockout)	
	Select Cartridge	Select appropriate cartridge for QC	
	Select Fluid	Select appropriate QC level	
	Scan or Enter Operator	Press Scan or manually enter operator ID (5 to 7-	
	ID	digit team member number) – Press Enter	
	Scan or Enter Control	Press Scan or manually enter the control lot ID –	
	Lot ID	Press Enter	
	Scan or Enter Cartridge Lot Number	Press Scan or manually enter the cartridge lot number – Press Enter	
		Shake the ampule vigorously for $5 - 10$ seconds	
		(Hold the ampule at the top and bottom with	
		forefinger and thumb)	
		Protect fingers with gauze, tissue or glove, or use	
		and ampule breaker to snap off the tip of the	
		ampule at the neck	
		Immediately transfer solution from the ampule into	
		a capillary tube or syringe	
		Immediately transfer the solution into the cartridge	

	Performing Liquid		Immediately seal the cartridge
	OC for Blood	Identifying cartridge –	Insert cartridge into the analyzer
	Gas. Electrolyte.	Please wait.	
	Metabolites.	cartridge locked	
	CG4+ Crea or	i-STAT (Cartridge Panel	Chart page will be displayed automatically
	Chem 8	number) Time to	Chart page will be displayed automatically
	(cont)	$R_{asults} \rightarrow R_{ase}$	
	(cont.)	Contridge looked	
		Cantrol (Lat Number)	Coor or monuplly onton the control lovel (such as 1
		Control (Lot Number)	Scan of manually enter the control level (such as 1, $2, 2$). Dress Exten
		Scall of Enter Data	2, 3) - Pless Efficience) and the Drace Enter to
		Field 1, 2, 3	Enter comments (optional) and/or Press Enter to
		\rightarrow Page, Cartridge	move thru all 3 fields
		Locked	
		Results	Test Options Control (Next Level, Repeat Level, or History)
		Cartridge Locked	Remove cartridge and discard in a Sharps container
		message is removed	
	Performing Liquid	Analyzer On	Press On/Off key
	QC for	Test Menu	Press Menu key
	Hematocrit	Administration Menu	Press 3 to select quality tests
		Quality Tests Menu	Press 1 to select control
		Quality Tests Control	
			Select 2 Scheduled (for OC Lockout)
		Select Cartridge	Select appropriate cartridge for OC
		Select Fluid	Select appropriate OC level
		Scan or Enter Operator	Press Scan or manually enter operator ID (5 to 7-
		ID	digit team member number) – Press Enter
		Scan or Enter Control	Press Scan or manually enter the control lot ID –
		Lot ID	Press Enter
		Scan or Enter Cartridge	Press Scan or manually enter the cartridge lot
		Lot Number	number – Press Enter
			Gently invert the ampule to mix the solution
			Protect fingers with gauze tissue or glove or use
			and ampule breaker to snap off the tip of the
			ampule at the neck
			a capillary tube or syringe
			Immediately transfer the solution into the cartridge
			Immediately seal the cartridge
		Identifying cartridge	Insert cartridge into the analyzer
		Please wait	insert cartridge into the analyzer
		cartridge locked	
		i-STAT (Cartridge Danal	Chart nage will be displayed automatically
		number) Time to	Chart page will be displayed automatically
		$\mathbf{D}_{\text{acult}}$, Time to	
		$ \begin{array}{c} \text{Results} \rightarrow \text{Fage}, \\ \text{Contrides looked} \end{array} $	
		Control (Lot Number)	Scan or manually enter the control level (such as 1
		Scan or Enter Data	2 3) Dress Enter
		Scan of Enter Data	2, 3j = 11035 Ellici

Performing Liquid	Field 1, 2, 3 \rightarrow Page Cartridge	Enter comments (optional) and/or Press Enter to
Hematocrit (cont)	Locked	move that an 5 news
	Results	Test Options Control (Next Level, Repeat Level, or History)
	Cartridge Locked	Remove cartridge and discard in a Sharps container
	message is removed	
QC for ACT and INR	material	room temperature for a minimum of 45 minutes
		Control solution MUST be used immediately (within 30 seconds) after completing the reconstitution and mixing steps
		Remove the cap and stopper from one lyophilized human plasma control vial and remove the cap from one vial of calcium chloride
		reconstituting fluid.
		Pour the entire contents of the calcium chloride vial
		Place the stopper back in the reconstituted control
		Allow the vial to sit at room temperature for 1
		Mix the contents of the vial by swirling gently for 1 minute Invert slowly for 30 seconds
		Using a plastic transfer pipette, syringe, or capillary tube with no anticoagulant
		Immediately transfer the solution from the vial into the ACT cartridge
		Immediately seal the cartridge and insert it into an analyzer
	Analyzer On	Press On/Off key
	Administration Menu	Press Menu Key Press 3 to select quality tests
	Quality Tests Menu Quality Tests Control	Press 1 to select control
	Quanty Tests Control	Press 2 scheduled (for QC Lockout)
	Select Cartridge Select Fluid	Select appropriate cartridge for QC Select appropriate QC level
	Scan or Enter Operator ID	Press Scan or manually enter operator ID (5-7-digit team member number) – Press Enter
	Scan or Enter Control Lot ID	Press Scan or manually enter the control lot ID – Press Enter
	Scan or Enter Cartridge Lot Number	Press Scan or manually enter the cartridge lot number – Press Enter

	Performing Liquid		Mix the contents of the vial by swirling gently for 1	
	QC for ACT and		minute. Invert slowly for 30 seconds.	
	INR		Using a plastic transfer pipette, syringe, or capillary	
	(continued)		tube with no anticoagulant	
			Immediately transfer the solution from the vial into	
			the ACT cartridge	
		Identifying cartridge –	Immediately seal the cartridge and insert it into an	
		Please wait,	analyzer	
		cartridge locked		
		i-STAT (Cartridge Panel	Chart page will be displayed automatically	
		number), Time to		
		Results \rightarrow Page,		
		Cartridge locked		
		Control (Lot Number)	Scan or manually enter the control level (such as 1,	
		Scan or Enter Data	2, 3) – Press Enter	
		Field 1, 2, 3	Enter comments (optional) and/or Press Enter to	
		\rightarrow Page, Cartridge	move thru all 3 fields	
		LOCKED	Test Options Control (Next Level Bapast Level or	
		Results	History)	
		Cartridge Locked	Remove cartridge and discard in a Sharps container	
		message is removed		
	Documentation of QC	QC is retained in Telcor (ML Data Management System. POC Coordinator at	
		the respective facility reviews and approves both the new lot/shipment and		
		the 30-day QC on an existing cartridge lot. This system will document		
		both who reviewed the QC and who performed the QC.		
	Corrective Action	failed OC		
		Talled QC.		
5.0	Ducadura Comple Co	lection Type Preparation for Testing		
5.0	Sample Collection	Venipuncture Refer to "	BayCare Laboratory Collections: Collection of a	
	Sample Collection	venipuncture – Refer to "BayCare Laboratory Collections: Collection of a Blood Sample Venipuncture"		
		Capillary Puncture – Refe	r to "BayCare Laboratory Collections: Collection of	
		a Blood Sample – Ca	pillary".	
	Lancets	Only auto-disabling single-use fingerstick devices are utilized for collection of		
		samples – PT/INR cartridge.		
		Arterial Puncture – Refer to "BayCare Laboratory Collections: Collection of a		
		Blood Sample – Arterial"		
		Gently mix blood (anticoagulated or not) immediately to avoid clotting (Blood		
		collection tube 10 times, Syringes rolled between the palms for at least 5		
		seconds)		
		Discard the first 2 drops, if using a syringe		
		Avoid exposure to air for pH, pO2, pCO2, and TCO2 (Test immediately if the		
		sample is drawn into	a blood concerton tube, experiany all bubbles if the	
		Line draws- For line draw	s the line should be flushed with 5mL of saline and	
		the first 5 mL of bloo	d or six dead space volumes should be discarded.	

Sample Collection	Drawing from an arm with an I.V. Line (dilution of sample)			
Limitations	Venous stasis (prolonged tourniquet application) and forearm exercise may			
	increase ionized calcium due to a decrease in pH caused by localized			
	production of lactic acid			
	Muscle activity such as clenching and unclenching the fist, which may			
	increase potassium results			
	Reduce hemolysis by allowing	residual alcohol to dry over the puncture site or		
	discarding a sample from	a traumatic draw which will cause an increase in		
	potassium results and a de	crease in calcium results		
	Collect blood collection tubes	in the following sequence to avoid interference		
	due to carry-over of additi	ive from one tube to another (No additive.		
	Citrate, Heparin, EDTA, a	and Oxalate)		
	If a citrate tube is drawn, draw	a 5 mL plain discard tube prior to collection of		
	the heparin tube			
	Lactate samples – to prevent	changes during collection, venous samples		
	should be obtained without	it the use of a tourniquet, or immediately after		
	tourniquet is applied. Coll	ection of additional tubes that do not require a		
	heparin additive should be	e obtained from a second collection		
	Lactate samples should be an	alyzed immediately, or within 10 minutes of		
	Lactate samples should be analyzed immediately, or within 10 minutes of collection – lactate value increases by as much as 70% within 30 minutes			
	as a result of glycolysis			
 Sample Type	Blood gases, Electrolyte.	Syringe, pre-heparinized syringe, lithium		
~~~FJF-	Chemistry and	heparin tube		
	Hematocrit Tests	T T T T T T T T T T T T T T T T T T T		
	Chem 8+ Cartridge	Heparinized whole blood collected in		
	Lactate (ED Stat Lab)	evacuated tubes containing lithium		
		heparin, if the tubes are filled to capacity		
	*Chem 8+ Cartridge for	Treated as a moderate complexity test – must		
	Isolation	collect in syringe – load direct to cartridge		
	Coagulation Tests	Plastic collection device (syringe or collection		
		tube) containing <b>NO</b> anticoagulant, clot		
		activators, or serum/plasma separators.		
		Any transfer device <b>MUST</b> be plastic		
		(dispenser, capillary tube, pipette, or		
		syringe)		
	INR Testing	Venous or capillary, DO NOT WIPE AWAY		
		the 1 st drop of blood.		

	Time to Test	Syringe		Immediately
		Lactate		Immediately
		pH, pCO2, pO2	, TCO2, iCa	Within 10 minutes
		Coagulation	, ,	Immediately
		HCT, and other	Analytes	Within 30 minutes
	Sample Transfer	A dispenser car	be used to avo	bid the use of needles when transferring a blood
	Devices	sample from a blood collection tube (capillary tubes 1 cc syringe with no		
		smaller than a 20-gauge needle)		
		DO NOT USE	dispensers that	t would introduce air into the sample when
		Ionized Ca	lcium pH pC(	$\Omega^2$ or TCO2 are being measured
		Tomized ed	ieruni, pri, pec	52, or 1002 are being measured
	Preparation for	Select the cartri	dge for the test	s requested
	Testing	Allow cartridge	to come to roc	om temperature $(18 - 30 ^{\circ}\text{C})$
		Analyzer needs	to be at room t	emperature (18 - 30 °C)
		Remove cartrid	ge from protect	tive pouch
		Do <b>NOT</b> contai	minate the cont	act pads with fingerprints or tale from gloves
		Do <b>NOT</b> apply	pressure to the	central area of the label
		Do <b>NOT</b> block	the air vent	
		Do <b>NOT</b> use a	cartridge on wh	nich blood or any other fluid has spilled
			curringe on wi	tion blobd of any other fluid has spined
6.0	Procedure – Patient Testing			
0.0	ribecuure rutent re	Stang		
	Filling and Sealing	Place the cartric	dge on a flat su	rface
	Cartridge using	Direct the tip of the syringe, capillary tube, or dispenser into the sample well		
	Transfer Device	Dispense sample slowly and steadily until it reaches the fill mark indicated on		
		the cartridge label		
		Leave some sample in the sample well		
		Fold the snap cl	losure over the	sample well
		Press the round	ed end of the cl	losure until it snaps into place
	Entry of Information	Analyzer Off	Press On/Off	Kev
		5	Display Logo	followed by Test Menu
		Analyzer On	Press Menu k	ev or turn Analyzer Off, then back On
		Press 2	Select i-STA	Γ cartridge
		Press Scan	Scan the Oper	rator ID (5-7-digit team member ID) or
		Press Enter	manually	venter
			mundully	
		Press Scan	Scan the patie	ent bar-coded ID armband to enter the Patient ID
		Press Enter	(financia)	l number)
		Press Scan	Scan the Lot	Number of the cartridge or manually enter
		Press Enter		the currence of manually offer
	1		1	

	Cartridge Entry	Align the cartri	Align the cartridge with the contact nade facing up and toward the cartridge		
	Califinge Entry	nort			
		Push the cartridge slowly and smoothly into the cartridge port until it clicks			
		into place			
		Do NOT attempt to remove the cartridge while the massage "Cartridge			
		Locked" prompt is on the series			
		Locked prompt is on the serven			
	Cartridge	Analyzer	Identifying Cartridge please wait		
	Identification	Displays	i-STAT (Cartridge Panel Number)		
			Time to Results		
			$\rightarrow$ Page		
			Cartridge Locked		
	Chart Page Entry	Press $\rightarrow$			
	(optional)	ID Scan or enter data – Press Enter			
		Sample Type	Choose sample type – Press Enter		
		Field 1	Enter comments and/or Press Enter		
		Field 2	Enter comments and/or Press Enter		
		Field 3	Enter comments and/or Press Enter		
		CPB Enter YES for hematocrit results, NO if hematocrit is not			
		requested – Press Enter			
	<b>Results Ready</b>	<b>Results</b> Page	Analyzer unlocks the cartridge and is ready for another test		
		Not on $Press \rightarrow to return to results page$			
		Results			
		Page			
		Comments	Scan or manually enter a comment code		
	Cartridge Removal	When results an	e displayed, pull the cartridge straight out of the analyzer		
		Dispose of the o	cartridge in a Sharps container		
	Disinfection	Many testing lo	cations do not have the i-STAT analyzer in contact with the		
		patient. He	owever, in those testing locations that do have the portable i-		
		STAT in cl	ose proximity to the patient, the i-STAT analyzer must be		
		disinfected after each patient utilization with the analyzer. This will be			
		completed	with the BayCare approved sanitizer/disinfectant.		
7.0	<b>Procedure – Results</b>				
	<b>Results Display</b>	Numerical concentration values in the units selected for the analyte			
	Data Transfor	For the sorial de	ownloader, check that the green power light is on		
		While the i	STAT is turned OFE place the infrared window of the STAT		
		between th	e arms of the downloader a red light will turn on and data will		
		transmit O	R		
		For the recharge	ax er downloader, place the analyzer in the cradle		
		1 of the recharge	er downloader, place the analyzer in the claule.		
		Do not move an	nalyzer while "Communication in Progress" is displayed.		

Reference Intervals (Normal)	<ul> <li>On the instrument screen, bar graphs depict the values in relation to reference intervals defined for the analyte (Exception: Blood Gas and Coagulation)</li> <li>Reference Intervals indicated on the bar graphs by tic marks. Results outside the respective normal reference range for the analyte are indicated with (↑), above, or (↓), below.</li> <li>Refer to "i-STAT Analyte Chart" for the normal reference ranges for each analyte.</li> </ul>
Interfering         Substances	<ul> <li>ACT -Collection in glass may prematurely activate coagulation resulting in accelerated clotting times. Analyzer must remain level during testing, if not ACT result may be affected by more than 10%. Any platelet dysfunction or coagulopathy may affect ACT results.</li> <li>Chloride-Hemodilution of plasma by more than 20% w/solutions that do not match ionic properties of plasma (such as ones to prime CP bypass pumps)</li> <li>Glucose -Use of drug Hydroxyurea cause significant errors. PO2 &gt;20 mmHg may decrease glucose. Thiocyanate falsely lowers glucose. 37.5 mmol/dL Bromide may lower Glu by 30 mg/dL.</li> <li>HCO3-Exposure of sample to air causes HCO3 to be under-estimated.</li> <li>HCT - Grossly elevated WBC may increase Hct. Abnormally high lipids may increase hematocrit. Hematocrit results affected when total protein level is &lt;6.5 or &gt;8.0 g/dL.</li> <li>Ionized Ca - Hemodilution of plasma by more than 20% w/solutions that do not match ionic properties of plasma (such as ones to prime CP bypass pumps)</li> <li>pCO2 - Exposure of sample to air cause PCO2 to decrease.</li> <li>PT/INR - Analyzer must remain level. Cubicin can cause a false prolongation of (PT) &amp; elevation of INR. Capillary testing DO NOT wipe away first drop of blood</li> <li>pH - Hemodilution of plasma by more than 20% w/solutions that do not match ionic properties of plasma (such as ones to prime CP bypass pumps). Exposure of sample to air causes PD when below 150 mmHg, &amp; decrease PO2 when above 150 mmHg</li> <li>Sodium - Hemodilution of plasma by more than 20% w/solutions that do not match ionic properties of plasma.</li> <li>Lactate – Bromide at 37.5 mmol/L and above will cause a decreased lactate result. Use another method.</li> <li>Hydroxyurea use of this drug at concentration 0.92 mmol/L and higher will cause an increased creatinine result. Use another method.</li> <li>Greatinne – Hydroxyurea: use of this drug at concentration 0.92 and higher will cause an increased creatinine resu</li></ul>

	Intonforing	Sodium Thiogulfate use at 16.7mmol/L and share will serve at
	Interiering	Sodium Imosultate use at 16./mmol/L and above will cause an
	Substances	increased creatinine result.
	Cont.	Glycolic Acid use at 10.0mmol/L and above will cause a
		decreased creatinine result. Use another method.
-	Reportable Range	Refer to "i-STAT Analyte Chart" for reportable ranges.
	(AMR)	(analytical measurement range or AMR) for each analyte
		(analytical measurement range of rainity), for each analyte.
	Critical Values	Critical values require immediate attention. Pecults that flag as a critical value
	Critical values	in Company Descent and a second direction. Results that hag as a children value
		in Cerner/Beacon are communicated directly to the licensed caregiver at
		the time of testing
		Refer to "i-STAT Analyte Chart" for applicable critical values for each
		analyte.
	Flags	> Result above the reportable range
		< Result below the reportable range
		< > Result is dependent on another test that has been flagged
		(Displayed for TCO2 pH pCO2 HCO3 Anion Gap Base
		(Displayed for TCO2, pri, pCO2, TCO3, Finite Cap, DaseExcess and sO2 if the TCO2 is outside the reportable range)
		If a Cadium result of > 190 is displayed the calculations for
		If a Sodium result of $> 180$ is displayed, the calculations for
		Potassium, Chloride, BUN/Urea, and Hematocrit, which
		depend upon the Sodium measurement, will be flagged<>.
		*** Signals are uncharacteristic for a particular sensor – Retest sample
		↑ Result above the respective normal range for the analyte
		↓ Result below the respective normal range for the analyte
	Documentation of	Results interface through the i-STAT data management system. Telcor, and
	Results	finally interface into Cerner (Beacon) for the patient EMR
8.0	Procedure – Maintenar	
0.0		
	As Needed	Refer to Systems manual for instructions
		Drying a Wet analyzer or downloader
		Cleaning the analyzer and downloader
		Demoving and replacing betteriog
		Removing and replacing batteries
		Removing and replacing the rechargeable battery
9.0	Principle	Micro-fabricated thin film electrodes or sensors are assembled in unit-use
		cartridges containing:
		Calibrant solution in cartridges with sensors for blood gases, electrolytes,
		chemistries, and hematocrit
		Reagents in cartridges with sensors for coagulation
		Sample handling system
		Waste chamber
		A more of ministration concorre
		Array or minimaturized sensors
		Conductive pads to make electrical contact with the analyzer
		Heating elements in cartridges requiring thermal control at 37 °C

10.0	Related Documents	"Moderate Complexity Testing Procedure"
10.0	Actuation D'ocuments	"BayCare Laboratory Quality Management System Manual: Test-Method-
		Instrument Varification and Reference Intervals Procedure
		" PayCara Laboratory Quality Management System Manual: Validation Chart
		– Reference Materials"
		"BayCare Laboratory Quality Management System Manual: Critical
		Values/Tests Procedure"
		"i-STAT Analyte Chart"
		"i-STAT Training – Skills Checklist"
		"i-STAT Super-user Training Checklist"
		"i-STAT Performance Validation Checklist" – initial, 6 month, 1 year-annual
		i biiii i chomanoo vanaanon choomist – minan, o monan, iyoar amaan
11.0	References	i-STAT 1 Systems Manual, i-STAT Corporation, New Jersey (Current
		Edition)
12.0	Attachment	N/A
13.0	Author	Written by Tom Miller St. Joseph's Hospital Point of Care Coordinator on
13.0	1 unoi	Dec. 16, 2006
		Revised by Karen Noyce, SFB Laboratory Manager, on Oct. 1, 2008
		Revised by Camille Smith. Mease Countryside Point of Care Coordinator on
		October 1, 2009.
		Added new facility on December 2, 2009.
		Added new Outpatient department on April 28, 2010
		Revised scope by Debbie Lettau on December 21, 2010
		Revised for reference values reportable range and critical ranges Appendix
		A by Tom Miller, St. Josenb's Hospital Point of Care Coordinator, on Sent
		19. 2011
		Revised by Bob Ferguson, Lab Manager, November 25, 2011
		Revised TNI control storage by Thomas H Miller BayCare Regional POC
		Manager on 6-13-2013
		Revised for Cal/Ver procedure new lot/old lot comparison timing of OC and
		Cal/Ver performed after CLEW software upgrades and added a disinfection
		section by Thomas H Miller, BayCare Regional POC Manager on
		8/27/2013
		0/27/2013.
		material and Performing Liquid OC $(4.0)$ . Sample collection and Sample
		Collection Limitations $(5.0)$ and Interfering Substances $(7.0)$ to add Lastate
		testing neuformed on the CC4   certaidee by Thomas II Miller DevCere
		Designed DOC Management Contember 20, 2014
		Regional POC Manager on September 30, 2014.
		Added EG /+ cartriage for WHH and removed some discontinued 1-STAT QC
		trom section (4.0) Quality Control and added EG/+ cartridge for WHH to
		section (3.0) Supplies by Thomas H Miller, BayCare Regional POC
		Manager on November 20, 2015.
		Removed sodium heparin as an acceptable anticoagulant for i-STAT sample
		collection due to a change per the manufacturer, and updated section (10)
		Related Documents by Thomas H Miller, BayCare Regional POC Manager
		on December 7, 2016.

		<ul> <li>Revised Section 1.0 to better define the limitation of the PT/INR cartridge to define utilization is only allowed for use with Coumadin/Warfarin anticoagulant, and revised Section 4.0 remove reference of CDS and added EVAS system set up by Thomas H Miller, BayCare Regional Point of Care Manager on January 16, 2018.</li> <li>Revised Section 7.0 to add Interfering Substances for Creatinine by Thomas H Miller, BayCare Regional Point of Care Manager on March 12, 2018.</li> <li>Revised Section 5.0 – (Lancets) to include lancets must be single-use auto Disabling, Section 1.0 to define limitation of ACT cartridge use is only for patients on Heparin anticoagulant, Section 5.0 updated Sample Types, Section 4.0 (Performing Cal/Ver) to include means of obtaining lower reportable range for Lactate during Calibration Verification, and Section 4.0 – QC Documentation. Removed all references to CLEW, updated disposal of cartridges into Sharps container instead of biohazardous waste by Thomas H Miller, BayCare System Point of Care Manager on March 19, 2019.</li> <li>Revised Section 3.0 (Cartridge Storage) to remove EC4+, and G3+; and add Creatinine only. Revised Section 4.0 (Refrigerator Storage and Room Temperature Storage) to include automated temperature monitoring in addition to Min/Max thermometers; and (External Liquid QC Material) to remove G3+, EC4+, E3+, and add Creatinine only cartridges. Revised Section 5.0 (Sample Type) to remove capillary sample for Chem 8 Cartridge, renamed EVD to Isolation, and INR sample to include venous as an additional option by Thomas H Miller, BayCare System Point of Care Manager on September 2, 2020.</li> <li>Revised Section 4.0 (Performing Cal/Ver – Note section) to update how to prove to a lower Reportable Range for Lactate due to the transition from the Vista to the Alinity instrumentation by Thomas H Miller, BayCare System Point of Care Manager on Super Type – Time to Test to remove mention of Troponin I since testing removed from instrument by Thomas H Miller, BayCare Point o</li></ul>
14.0	Approval	See Annual Review Document
1100		